(ii) culturing said PGCs for at least fourteen days in the absence of feeder cells in a culture medium comprising at least the following growth factors in amounts sufficient to maintain said PGCs for at least fourteen days in tissue culture in the absence of feeder cells:

(1) leukemia inhibitory factor (LIF),

(2) basic fibroblast growth factor (bFGF),

(3) stem cell factor (SCF) and

(4) insulin-like growth factor (IGF).

C2 cont

22. (Amended) The method of Claim 21, wherein the concentrations of said growth factors in the culture medium are at least the following minimal concentrations:

(1) 0.00625 U/μl of LIF,

(2) 0.25 pg/μl of bFGF,

(3) 0.5625 pg/μl of IGF, and

(4) 4.0 pg/μl of SCF.

23. (Amended) The method of claim 22, wherein the concentrations of said growth factors are in the range of from about two times to one hundred times said minimal concentrations.

24. (Amended) The method of claim 21, wherein said avian PGCs are obtained from an avian of the order *Gallinacea*.

27. (Amended) The method according to claim 26, wherein said PGCs are maintained in culture for at least 25 days.

C3

C4

29. (Amended) The method of claim 21, which further comprises:

(iv) introducing into the resultant PGCs a nucleic acid that comprises a nucleotide sequence that encodes a polypeptide and is functionally linked to gene expression regulatory sequences that are operable in an avian cell.

30. (Amended) A culture comprising avian PGCs produced according to claim 21, said culture being free of feeder cells and comprising medium comprising LIF, bFGF, SCF, and IGF.

C4 Amd

31. (Amended) The culture of claim 30 wherein said PGCs are chicken or turkey PGCs.

32. (Amended) A culture comprising avian PGCs produced according to claim 21, said culture being free of feeder cells and comprising medium comprising LIF, bFGF, SCF, and IGF, wherein a nucleic acid has been introduced into said PGCs that comprises a nucleotide sequence that encodes a polypeptide and is functionally linked to gene expression regulatory sequences that are operable in an avian cell.

New Claims:

33. The method of claim 21, wherein said avian PGCs form a monolayer.

C5

34. The culture of claim 30, wherein said avian PGCs form a monolayer.

35. The culture of claim 32, wherein said avian PGCs form a monolayer.

REMARKS

This Reply is responsive to the Office Action dated April 24, 2002. Entry of the foregoing and reconsideration on the merits pursuant to 37 CFR 1.116 is respectfully requested.